

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 01-096040

(43)Date of publication of application : 14.04.1989

(51)Int.Cl.

C03B 37/014

// G02B 6/00

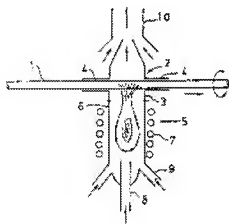
(21)Application number : 62-253861

(71)Applicant : FUJIKURA LTD

(22)Date of filing : 09.10.1987

(72)Inventor : NISHIDE KENJI
TANAKA TAIICHIRO

(54) SURFACE TREATMENT OF OPTICAL FIBER PREFORM



(57)Abstract:

PURPOSE: To obtain an optical fiber with improved transmission loss and mechanical strength by polishing the outer periphery of the optical fiber preform with a laser beam or a plasma flame under a positive pressure.

CONSTITUTION: The optical fiber preform 1 is allowed to pierce the insertion pipe 4 formed on the barrel part 3 of a positive-pressure vessel 2, rotated, and moved in the direction as shown by the arrow. A gaseous etchant is then supplied from supply nozzles 8 and 9 to make the pressure in the vessel 2 positive. A plated circuit current is impressed on an induction coil 7, and the outer periphery of the preform 1 is polished by the generated plasma flame or laser beam.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's

decision of rejection]

[Date of requesting appeal against
examiner's decision of rejection]

[Date of extinction of right]